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POKA YOKE FOR MANUFACTURING EXCELLENCE

BY ELITE INDIGO

Eliminate manufacturing defects at the source by mastering Toyota-inspired mistake-proofing techniques, sensory controls, and robust process interlocks.

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Poka Yoke for Manufacturing Excellence

Program Overview

In high-precision assembly environments, relying on downstream detection is no longer sufficient to guarantee quality. Poka Yoke for Manufacturing Excellence is an intensive, 1-day course designed to shift your operations from a detection-based approach to an absolute prevention strategy. Tailored for engineers, supervisors, and QA teams, this program explores the root causes of human and process errors, especially within electronics manufacturing and SMT operations. Participants will learn to design physical jigs, sensor-based controls, and visual aids, culminating in a hands-on workshop to build actionable mistake-proofing plans for their own production lines.

Learning Objectives

By the end of the course, participants will be able to:

- Understand the principles and philosophy of Poka Yoke in manufacturing
- Identify common human errors and process weaknesses in production
- Apply suitable mistake-proofing methods in assembly and process control
- Design simple Poka Yoke solutions for their own work areas
- Improve product quality and reduce defects through preventive controls

Duration

One (1) Full-Day Workshop

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Poka Yoke for Manufacturing Excellence

Course Schedule

DAY/TIME	DESCRIPTION
15 Minutes	**Introduction to Quality Error Prevention**
1 Hour	**Module 1: Fundamentals of Poka Yoke** • Definition and concept of mistake-proofing • Origin of Poka Yoke in Toyota Motor Corporation production system • Why defects occur in manufacturing • Human error vs process failure • Cost of poor quality and hidden losses • Prevention vs detection approach
1 Hour	**Module 2: Types of Human Errors in Production** • Omission errors • Processing errors • Setup errors • Measurement errors • Misidentification • Wrong part / wrong orientation • Operator handling mistakes • Case examples from electronics manufacturing
1 Hour	**Lunch**
1 Hour 30 Minutes	**Module 3: Poka Yoke Methods and Techniques** • Contact method • Fixed value method • Motion step method • Warning type controls • Shutdown type controls • Interlock systems • Sensor-based prevention • Mechanical guides and jigs • Visual management aids

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Poka Yoke for Manufacturing Excellence

Course Schedule (Continue)

DAY/TIME	DESCRIPTION
1 Hour 15 Minutes	**Module 4: Applying Poka Yoke in Electronics Manufacturing** • Preventing wrong component insertion • Orientation control for parts • Connector mismatch prevention • Assembly sequence control • Label verification • Inspection checkpoints • Preventing missing parts • Reducing process variation • Examples from SMT / assembly / testing operations
1 Hour	**Module 5: Poka Yoke Design Workshop** • Identify real workplace issues • Group discussion on existing defects • Root cause identification • Design simple solutions • Evaluate practicality • Presentation and feedback
1 Hour	**Module 6: Implementation Planning** • Selecting pilot areas • Team roles • Monitoring effectiveness • KPI tracking • Continuous improvement integration • Action planning
	Summary and End of Course

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ABOUT ELITE INDIGO

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